

A BIBLIOGRAPHY  
OF  
INDIAN GEOLOGY AND PHYSICAL GEOGRAPHY  
WITH  
AN ANNOTATED INDEX  
OF  
MINERALS OF ECONOMIC VALUE

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PART I.—A BIBLIOGRAPHY

OF

INDIAN GEOLOGY AND PHYSICAL  
GEOGRAPHY



## PREFACE.

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ABOUT the year 1901, when I was engaged on field work in Burma, and there seemed to be a prospect of my being permanently transferred to that Province, I compiled for my own use a list of all papers relating to the geology and mineral resources of Burma, accompanied by abstracts of the matter contained in each of them, and found that the labour expended in its preparation was fully repaid by the ready accessibility of the information thus condensed.

Some time after my retirement from India in 1911, the Director of the Geological Survey, Mr. Hayden, suggested that a work on the same lines, but dealing with the whole of India, would be useful, and asked me to undertake it; at the same time obtaining the sanction of the Government of India to its publication when complete. It was recognised, however, that if every branch of the subject were included in the notes, as I attempted in the case of Burma, the work would entail an enormous expenditure of time, and would be too bulky for ease of reference, especially by those who are concerned with the geology only in so far as it relates to the development of the mineral wealth of the country; though a subject-index to the voluminous literature on Indian geology and physical geography has long been needed. While the Bibliography, therefore, includes not only publications dealing with geology and the sciences intimately connected with it, but also with physical geography, topography, and in some instances with botany and travel,—where these contain information that may be of use to the geologist,—the notes which form the second portion of the present work are concerned only with the minerals of economic value.

In the compilation of the first portion of the work I have had the great advantage of being able to make use of Mr. R. D. Oldham's very complete Bibliography, presented to the Geological Survey of India in the year 1888. The additions that I have been able to make, so far as matter published before that date is concerned, are neither numerous nor perhaps of great importance. Their inclusion in most cases is due to the smaller size of the mesh which I have used,—since I have inserted references to a large number of abstracts and reviews, which may be found useful by those to whom the original papers are not accessible,—and to the wider area over which my net has been cast, as compared with that so diligently exploited by Mr. Oldham. He was restricted to the two scientific Libraries then in existence in Calcutta,

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that of the Geological Survey and that of the Asiatic Society of Bengal. Whereas it has been my privilege to have had free access to the Cambridge University Library, to those of the Geological Society of London, the India Office, the British Museum, the Imperial Institute, the Science Museum, the Royal Geographical Society and the Institution of Civil Engineers. To the Librarians of these Institutions I offer my grateful acknowledgments for the facilities afforded to me in carrying out my task. Owing to these advantages I have been able, with very few exceptions, to verify the references personally, and to consult the original publications for the purpose of making the abstracts comprised in the second part of the work.

The arrangement of the matter contained in the Bibliography is similar to that of Mr. Oldham's work, with a few unimportant modifications. Thus I have collected anonymous contributions under one heading, and have classified them according to the subjects concerned; but in order to avoid making this heading inordinately large, I have omitted those anonymous references to thermal springs and earthquakes which are included in the catalogues compiled by Dr. T. Oldham, and edited by Mr. R. D. Oldham in the year 1883 (*Memoirs, Geological Survey of India*, Vol. XIX, Pts. 2 and 3). Papers of joint authorship are indexed under the name first appearing in the title, and are indicated by cross-references under the names of the joint authors. Cross-references have also been inserted in cases where an observer is mentioned by name in the title of a publication. In order to facilitate cross-reference from the second part of the work to the Bibliography, each author is furnished with a serial number, printed in heavy type, under which his papers, if more than one, are numbered in chronological order.

Square brackets indicate that it has been necessary to supply or to amplify the title of a communication; while words in round brackets form part of the original title.

As in Mr. Oldham's work, references to geology and economic minerals contained in administration reports, district handbooks, and the like, are omitted, when they are written by persons not possessing a practical acquaintance with the subject.

The labour and time expended on the correction of the proofs have been greatly increased by the delays involved in communicating with a Press six thousand miles away. I feel much indebted to the Superintendent of the Government Printing Office in Calcutta for the patience and care exercised with regard to the numerous corrections and interpolations which were found to be necessary as the work was passing through the press. The risks attending the transmission of the proofs

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through a region exposed to the attacks of hostile vessels have not been without their effect ; for some two-thirds of the first proofs were lost, after revision and correction, in the ill-fated "Maloja." Fortunately, a duplicate copy of these proofs had been kept, or the loss would have been almost irreparable ; for they contained a large amount of new matter, bringing the work down to the latest possible date. Under the circumstances, it would be surprising if some errors and omissions had not crept into the text, and I trust that any faults of this nature that may be detected will be leniently dealt with.

In conclusion, I must express my special obligation to Mr. J. B. Scrivenor, State Geologist, Federated Malay States, for a list of papers on the geology of the Malay Peninsula ; to the State Geologists, Travancore, Messrs. Chacko and Masillamani, for copies of their reports ; to Dr. W. F. Smeeth, Director of the Geological Department, Mysore ; and to those of my former colleagues on the Geological Survey of India who have supplied me with information regarding papers contributed by them to publications other than those issued by that Department or well known scientific serials.

T. H. D. LATOUCHE.

*Cambridge, 1916.*



## LIST OF ABBREVIATED TITLES.

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### A

**Abhandl. k.-bayer. Akad. Wiss.**—Abhandlungen der mathematisch-physikalischen Classe der königlich-bayerischen Akademie der Wissenschaften. 4°, Munich, 1832—

**Abhandl. k.-k. geogr. Ges.**—Abhandlungen der kaiserlich-königlichen geographischen Gesellschaft in Wien. 4°, Wien, 1899—

**Abhandl. k.-preuss. Akad. Wiss.**—Abhandlungen der mathematischen Klasse der königlich-preussischen Akademie der Wissenschaften. 4°, Berlin, 1815—

**Abhandl. nat. Ges. Nürnberg.**—Abhandlungen der naturhistorischen Gesellschaft zu Nürnberg. 8°, Nürnberg, 1858—

**Abhandl. naturw. Ges. Isis.**—Abhandlungen der naturwissenschaftlichen Gesellschaft Isis in Dresden. 8°, Dresden, 1891—

**Agric. Journ. India.**—The Agricultural Journal of India. 4°, Calcutta, 1906—

**Agric. Ledger.**—The Agricultural Ledger, edited by the Reporter on Economic Products to the Government of India. 8°, Calcutta, 1892—

**Alex. E. I. Mag.**—Alexander's East India Magazine and Colonial and Commercial Journal. 8°, London, 1830—1842.

**Alp. Journ.**—The Alpine Journal: a Record of Mountain Adventure and Scientific Observation by Members of the Alpine Club. 8°, London, 1863—

**Amer. Geol.**—The American Geologist; a Monthly Journal of Geology and Allied Sciences. 8°, Minneapolis, Minn., 1888—1905.

**Amer. Journ. Sci.**—The American Journal of Science and Arts (Silliman's Journal). 8°, Newhaven, 1818—

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- Ann. Chim.**—Annales de Chimie ; ou Recueil de Mémoires concernant la Chimie et les Arts qui en dépendent. 8°, Paris, 1789—1815.
- Ann. Chim. Phys.**—Annales de Chimie et de Physique. 8°, Paris, 1816—
- Ann. Club Alp. franc.**—Annuaire du Club Alpine français. 8°, Paris, 1874—1903.
- Ann. de Géogr.**—Annales de Géographie. 8°, Paris, 1892—
- Ann. des Mines.**—Annales des Mines ; ou Recueil de Mémoires sur l'exploitation des Mines, et sur les Sciences qui s'y rapportent. 8°, Paris, 1816—
- Ann. du Mus.**—Annales du Muséum National d'Histoire Naturelle. 4°, Paris, 1802—1813.
- Ann. gén. Sci. Phys.**—Annales générales des Sciences Physiques. 8°, Bruxelles, 1819—1821.
- Ann. Géol. Univ.**—Annuaire géologique universel et Guide du Géologie autour de la Terre. 8°, Paris, 1885—1893.
- Ann. k.-k. Nat. Hofmus.**—Annalen der kaiserlich-königlichen naturhistorischen Hofmuseums. 8°, Wien, 1886—
- Ann. Mag. Nat. Hist.**—Annals of Natural History ; or, Magazine of Zoology, Botany, and Geology. 8°, London, 1838—
- Ann. Philos.**—Annals of Philosophy ; or, Magazine of Chemistry, Mechanics, Natural History, Agriculture, and the Arts. 8°, London, 1813—1826.
- Ann. Sci. Nat.**—Annales des Sciences Naturelles, comprenant la Zoologie, la Botanique, l'Anatomie, et la Physiologie comparées des deux Régnes, et l'Histoire des corps organisés fossiles. 8°, Paris, 1824—
- Ann. Sci. phys. nat. Lyon.**—Annales des Sciences physiques et naturelles, d'Agriculture, et d'Industrie. 8°, Lyon et Paris, 1838—
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- As. Ann. Reg.**—The Asiatic Annual Register; or a view of the History of Hindustan, and of the Politics, Commerce, and Literature of Asia. 8°, London, 1800—1811.
- As. Journ.**—The Asiatic Journal and Monthly Register for British India and its Dependencies. 8°, London, 1816—1845.
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- Atti R. Accad. Sci. Torino.**—Atti della Reale Accademia delle Scienze di Torino. 8°, Torino, 1866——
- Atti Soc. Tosc. Sci. Nat.**—Atti della Società Toscana di Scienze Naturali residente in Pisa. 8°, Pisa, 1875——

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- Beitr. z. Geophys.**—Beiträge zur Geophysik; Zeitschrift für physikalische Erdkunde. 8°, Leipzig, 1887——
- Beitr. z. Pal. Oesterr.-Ungarns u. des Orients.**—Beiträge zur Paläontologie und Geologie Oesterreich-Ungarns und des Orients. 4°, Wien, 1882——
- Ber. deutsch. chem. Ges.**—Berichte der deutschen chemischen Gesellschaft zu Berlin. 8°, Berlin, 1868——

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- Bibl. Brit.**—Bibliothèque Britannique ; ou 'Recueil. Extrait des Ouvrages periodiques et autres ; des Mémoires et Transactions des Sociétés et Académies de la Grande Bretagne, d'Asie, d'Afrique, et d'Amerique. 8°, Genève, 1796—1815.
- Bibl. Univ.**—Bibliothèque Universelle des Sciences, Belles-Lettres, et Arts ; faisant suite à la Bibliothèque Britannique. 8°, Genève, 1816—1874.
- Boll. Soc. Geogr. Ital.**—Bollettino della Società Geographica Italiana. 8°, Firenze, 1868—
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- Bull. Agric. Res. Inst.**—Bulletins issued by the Agricultural Research Institute, Pusa. 8°, Calcutta, 1904—
- Bull. Amer Geogr. Soc.**—Bulletin of the American Geographical and Statistical Society. 8°, New York, 1852—
- Bull. Imp. Earthq. Inv. Comm.**—Bulletin of the Imperial Earthquake Investigation Committee. 8°, Tokyo, 1907—
- Bull. Imp. Inst.**—Bulletin of the Imperial Institute. 8°, London, 1903—
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- Bull. Soc. belge Géol.**—Bulletin de la Société belge de Géologie, de Paléontologie, et d'Hydrologie. 8°, Bruxelles, 1887—
- Bull. Soc. franc. Min.**—Bulletin de la Société française de Minéralogie. 8°, Paris, 1878—
- Bull. Soc. fribourg. Sci. Nat.**—Bulletin de la Société fribourgeoise des Sciences Naturelles. 8°, Fribourg, 1887—
- Bull. Soc. Géogr.**—Bulletin de la Société de Géographie. 8°, Paris, 1822—1899.
- Bull. Soc. Géol. France.**—Bulletin de la Société Géologique de France. 8°, Paris, 1831—
- Bull. Soc. hongr. de Géogr.**—Földrajzi Közlemények. Bulletin de la Société hongroise de Géographie. 8°, Budapest, 1873—
- Bull. Soc. Philomatique.**—Bulletin des Sciences par la Société Philomatique de Paris. 4°, Paris, 1807—1826.
- Burma.**—Papers on the Geology and Minerals of British Burmah, reprinted by order of C. E. Bernard, C.S.I., Chief Commissioner. 8°, Calcutta, 1882.

C

- Cal. Ann. Reg.**—The Calcutta Annual Register. 8°, Calcutta, 1823.
- Cal. Journ. Nat. Hist.**—The Calcutta Journal of Natural History. 8°, Calcutta, 1841—1848.
- Cal. Review.**—The Calcutta Review. 8°, Calcutta, 1844—
- Carnegie Inst.**—Publications of the Carnegie Institution of Washington. 8°, 1903—

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**Ciel et Terre.**—Revue populaire d'Astronomie, de Météorologie, et de Physique du Globe. 8°, Bruxelles, 1881—

**Coal Com. Rep.**—Reports and Abstracts of the Proceedings of a Committee for the Investigation of the Coal and Mineral Resources of India. Fol., Calcutta, 1838—1846.

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**C. R. Ac. Sci.**—Comptes Rendus hebdomadaires des Séances de l'Académie des Sciences. 4°, Paris, 1835—

D

**Denkschr. k. Akad. Wiss.**—Denkschriften der kaiserlichen Akademie der Wissenschaften. Mathematisch-naturwissenschaftliche Classe. 4°, Wien, 1850—

E

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**Edin. Journ. Sci.**—The Edinburgh Journal of Science ; exhibiting a View of the Progress of Discovery in Natural Philosophy, Chemistry, Mineralogy, Geology, Botany, Zoology, Comparative Anatomy, Practical Mechanics, Geography, Navigation, Statistics, Antiquities, and the Fine and Useful Arts. 8°, Edinburgh and London, 1824—1832.

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**Edin. Review.**—The Edinburgh Review, or Critical Journal. 8°, Edinburgh, 1802—

**Edinb. Trans.**—Transactions of the Royal Society of Edinburgh. 4°, Edinburgh, 1783—

**Eng. Min. Journ.**—The Engineering and Mining Journal. 4°, New York, 1864—

**F**

**Flora.**—Flora, oder allgemeine botanische Zeitung, herausgegeben von der könig.-bayerischen botanischen Gesellschaft zu Regensburg. 8°, Regensburg, 1818—

**Földt. Közl.**—Földtani Közlöny (Geologische Mittheilungen). Zeitschrift der ungarischen geologischen Gesellschaft. 8°, Budapest, 1871—

**Froriep's Notizen.**—Notizen aus dem Gebiete der Natur-und Heilkunde gesammelt und mitgetheilt von Ludwig Friedrich von Froriep. 4°, Erfurt, 1821—

**G**

**Gen. Rep. G. S. I.**—General Reports of the work carried on by the Geological Survey of India for the years 1898 to 1903. 8°, Calcutta, 1899—1903.

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**Geogr. Journ.**—The Geographical Journal; including the Proceedings of the Royal Geographical Society. 8°, London, 1893—

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- Geologist.**—The Geologist ; a popular Monthly Magazine of Geology. 8°, London, 1858—1864.
- Geol. Rundschau.**—Geologische Rundschau ; Zeitschrift für allgemeine Geologie, unter mitwirkung der deutschen geologischen Gesellschaft. 8°, Leipzig, 1910—
- Geol. u. Pal. Abhandl.**—Geologische und Paläontologische Abhandlungen. 4°, Berlin, 1882—
- Geol. Trans.**—Transactions of the Geological Society of London. 4°, London, 1811—1842.
- Gilbert's Ann. Phys.**—Annalen der Physik, herausgegeben von L. W. Gilbert. 8°, Halle und Leipzig, 1799—1824.
- Glean. Sci.**—Gleanings in Science. 8°, Calcutta, 1829—1831.
- Globus.**—Illustrierte Zeitschrift für Länder und Völkerkunde. 4°, Braunschweig, 1862—

## H

- Haidinger's Berichte.**—Berichte über die Mittheilungen von Freunden der Naturwissenschaften in Wien, gesammelt von Wilhelm Haidinger. 8°, Wien, 1846—1850.
- Hemchandra Mem. Ser.**—The Hemchandra Memorial Series ; published by the Sahitya Sabha. 8°, Calcutta, 1908—
- Hooker's Journ. Bot.**—Hooker's Journal of Botany and Kew Garden Miscellany. 8°, London, 1849—1857.

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- Imp. Inst. Journ.**—The Imperial Institute Journal. Fol., London 1895—1902.

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- Imp. Inst. Tech. Rep.**—Technical Reports and Scientific Papers of the Imperial Institute of the United Kingdom, the Colonies, and India, edited by Wyndham R. Dunstan. 8°, London, 1903.
- Ind. Ann. Med. Sci.**—The Indian Annals of Medical Science ; or Half-Yearly Journal of Practical Medicine and Surgery. 8°, Calcutta, 1854—1877.
- Ind. Antiquary.**—The Indian Antiquary ; a Journal of Oriental Research in Archæology, etc. 4°, Bombay, 1872—
- Ind. Economist.**—The Indian Economist ; a Monthly Journal devoted to Economical and Statistical Inquiries concerning India. 4°, Calcutta, 1870—1875.
- Ind. Forester.**—The Indian Forester ; a Quarterly Magazine of Forestry. 8°, Calcutta and Roorkee, 1875—
- Ind. Journ. Arts.**—The Illustrated Indian Journal of Arts, Sciences, and Manufactures. 8°, Madras, 1850—1856.
- Ind. Journ. Med. Phys. Sci.**—The Indian Journal of Medical and Physical Science. 8°, Calcutta, 1836—1838.
- Indo-China.**—Miscellaneous Papers relating to Indo-China. Reprinted for the Straits Branch of the R. Asiatic Society from Dalrymple's "Oriental Repertory" and the "Asiatic Researches" and "Journal of the Asiatic Society of Bengal." 8°, London, 1886—1887.
- Isvestia, Russ. Geogr. Soc.**—Bulletin of the Imperial Geographical Society of Russia. 8°, Petrograd, 1874—

J

- Jahrb. f. Min.**—Jahrbuch für Mineralogie, Geognosie, Geologie, und Petrefaktenkunde. 8°, Heidelberg, 1830—1832.
- Jahrb. k.-k. Geol. Reichsanst.**—Jahrbuch der kaiserlich-königlichen geologischen Reichsanstalt. 8°, Wien, 1850—
- Jahrb. Schw. Alpenclub.**—Jahrbuch der Schweizer Alpenclub. 8° Bern, 1864—

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- Journ. Agri. Hort. Soc. India.**—Journal of the Agricultural and Horticultural Society of India. 8°, Calcutta, 1842—
- Journ. A. S. B.**—Journal and Proceedings of the Asiatic Society of Bengal. 8°, Calcutta, 1832—
- Journ. Asiat.**—Journal Asiatique ; ou Recueil de Mémoires, d'Extraits, et de Notices relatifs à l'Histoire, à la Philosophie, aux Sciences, à la Littérature et aux Langues des Peuples Orientaux. 8°, Paris, 1822—
- Journ. Bo. As. Soc.**—Journal of the Bombay Branch of the Royal Asiatic Society. 8°, Bombay, 1841—
- Journ. Ceyl. As. Soc.**—Journal of the Ceylon Branch of the Royal Asiatic Society. 8°, Colombo, 1845—
- Journ. Chem. Soc.**—Journal of the Chemical Society of London. 8°, London, 1849—
- Journ. de Conch.**—Journal de Conchyliologie, comprenant l'Étude des Animaux des Coquilles vivantes et des Coquilles fossiles. 8°, Paris, 1850.
- Journ. de Géologie.**—Journal de Géologie, par MM. A. Boué, Jobert, et Rozet. 8°, Paris, 1830—1831.
- Journ. de Pharm.**—Journal de Pharmacie et des Sciences accessoires. 8°, Paris, 1815—
- Journ. des Mines.**—Journal des Mines ; ou Recueil de Mémoires sur l'exploitation des Mines, et sur les Sciences et les Arts qui s'y rapportent. 8°, Paris, 1795—1815.
- Journ. Geol.**—The Journal of Geology ; a semi-Quarterly Magazine of Geology and Related Sciences. 8°, Chicago, 1893—
- Journ. Geol. Soc. Dublin.**—Journal of the Geological Society of Dublin. 8°, Dublin, 1838—1864.
- Journ. f. prakt. Chem.**—Journal für praktische Chemie. 8°, Leipzig 1834—

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- Journ. Ind. Archipelago.**—The Journal of the Indian Archipelago and Eastern Asia. 8°, Singapore, 1847—1862.
- Journ. I. S. Inst.**—The Journal of the Iron and Steel Institute. 8°, London, 1871—
- Journ. Manch. Geogr. Soc.**—The Journal of the Manchester Geographical Society. 8°, Manchester, 1885—
- Journ. Phys. Chim.**—Journal de Physique, de Chimie, et d'Histoire Naturelle. 4°, Paris, 1773—1822.
- Journ. R. As. Soc.**—The Journal of the Royal Asiatic Society of Great Britain and Ireland. 8°, London, 1834—
- Journ. R. Dub. Soc.**—The Journal of the Royal Dublin Society. 8°, Dublin, 1856—1878.
- Journ. R. Geogr. Soc.**—The Journal of the Royal Geographical Society of London. 8°, London, 1832—1880.
- Journ. R. Geol. Soc. Ireland.**—The Journal of the Royal Geological Society of Ireland. 8°, Dublin, 1864—1887.
- Journ. Sci.**—The Quarterly Journal of Science (afterwards Journal of Science), edited by J. Samuelson and W. Crookes. 8°, London, 1864—1885.
- Journ. Soc. Arts.**—The Journal of the Society (afterwards Royal) of Arts. 8°, London, 1852—
- Journ. Soc. Chem. Ind.**—The Journal of the Society of Chemical Industry. 8°, Manchester and London, 1882—
- Journ. Str. As. Soc.**—Journal of the Straits Branch of the Royal Asiatic Society. 8°, Singapore, 1878—

K

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**La Géographie.**—Bulletin de la Société de Géographie. 8°, Paris, 1900—

**Leth. Geogn.**—Lethaea Geognostica, oder Beschreibung und Abbildung der für die Gebirgs-Formationen bezeichnenden Versteinerungen. 8°, Stuttgart, 1897—1908.

**L'Institut.**—Journal des Académies et Sociétés scientifiques de la France et de l'Étranger. 4°, Paris, 1833—1869.

**M**

**Mad. Journ. Lit. Sci.**—Madras Journal of Literature and Science, published under the auspices of the Madras Literary Society and Auxiliary of the Royal Asiatic Society. 8°, Madras, 1834—1882.

**Mad. Mon. Journ. Med. Sci.**—The Madras Monthly Journal of Medical Science. 8°, Madras, 1867—1872.

**Mad. Quart. Med. Journ.**—The Madras Quarterly Journal of Medical Science. 8°, Madras, 1858—1866.

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**Man.**—A Monthly Record of Anthropological Science. 8°, London, 1901—

**Mem. Dep. Agric. Ind.**—Memoirs of the Department of Agriculture in India. Chemical Series. 4°, Calcutta, 1906—

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- Mém. de l'Inst.**—Mémoires de l'Académie royale des Sciences de l'Institut de France. 4°, Paris, 1798—
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- Mem. Mus. Comp. Zool.**—Memoirs of the Museum of Comparative Zoology at Harvard College. 4°, Cambridge, Mass., 1864—
- Mem. Mysore Geol. Dep.**—Memoirs of the Mysore Geological Department. 8°, Bangalore, 1900—
- Mem. Wern. Soc.**—Memoirs of the Wernerian Natural History Society. 8°, Edinburgh, 1811—1837.
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